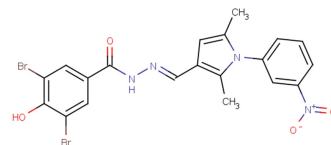


Kinesore

Chemical Properties

CAS No.:	363571-83-9
Formula:	C20H16Br2N4O4
Molecular Weight:	536.17
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Kinesore is a KLC2-SKIP Interaction inhibitor.
Targets(IC ₅₀)	KLC2-SKIP: None
In vitro	The microtubule network is entirely reorganized into a series of loops and bundles, in kinesore-treated cells. The lysosomal compartment accumulates in a juxtanuclear position, where there are relatively few microtubules. At 50 μ M kinesore, this phenotype is highly penetrant, with $95 \pm 2.4\%$ (n=3, total of 200 cells) of cells exhibiting a reorganized nonradial microtubule network. In wild-type cells, 50 μ M kinesore induces the remodeling of the microtubule network and the formation of extensive microtubule-rich projections. This phenotype is strongly suppressed in Kif5B knockout cells, confirming that microtubule remodeling induced by kinesore is dependent upon the presence of kinesin-1. In titration experiments, in cells treated for 1 h, this phenotype becomes apparent at a concentration of 25 μ M kinesore, with relatively little effect at or below concentrations of 12.5 μ M. The effect is reversible because a 2-h washout of kinesore from cells treated for 1 h led to the reestablishment of the radial microtubule array. This kinesore-induced reorganization of the microtubule network is observed in a panel of mammalian normal and cancer cell lines.

Solubility Information

Solubility	DMSO: 125 mg/mL (233.14 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.865 mL	9.325 mL	18.651 mL
5 mM	0.373 mL	1.865 mL	3.73 mL
10 mM	0.187 mL	0.933 mL	1.865 mL
50 mM	0.037 mL	0.187 mL	0.373 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Randall TS, et al. A small-molecule activator of kinesin-1 drives remodeling of the microtubule network. Proc Natl Acad Sci U S A. 2017 Dec 26;114(52):13738-13743.

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